```
V.10) Linear Search Algorithm >
                      Colores Jalyan on
  arr [18,12,9,14,77,50]
 I find whether 14 exists in the array or not.
Linear Search is simply traversing the list completely and
match each element of the list with the item whose
location is to be found.
 Time Complexity > ( Best Case - 0(1)
                 ( Worst Case - O(n)
   in+[] nums = {23, 14, 17, 19, 1, 20, 48, 10, 15}
    int target = 10;
    int ans = linear Search (nums, target);
     Sout (ans);
               Lie void reverse (int [] arr)
          int linear Search (int [] arr, int target)
            if (arr, length == 0)
               { return -1,2) older
         swap (air) start, and);
      for (int index = 0; index < arr, length; index +1)
           int element = arr [index];
             if (element == target)
             { return index;
             int temps continder 1]:
     return it; word no . [ booking mo
```

```
in String:
                              beared (6 20 arrays ;
      String name = "Ronit";
       char target = "n";
       sout ( search (name, tanget));
  Static boolean search (String str, char target)
       if (str. length () = = 0)
          { return false (no) points of appoints) touse
        static int search (int[]]] are, int des[1)
      for (int i=0; i < str. length (); i++)
            if (target == str. char At (i))
                        str. charAt(i))
                 == [los][wor] rec ) li }
  return false, in over ment or
Find Min/Max ! - J-> [] +ri wan mutan
                                           1/ Function onl
   static int min (int[] arr)
    int ans = arr[0];
       for (int 1=1; i (arr, length; itt)
         if (arr [i] < ans)
            { ans = arr[i];
```

Search. in 2D arrays: tinal some prints in+[7[7 arr= { or a topich meds {23, 4, 13 {18,12,3,9} sout (sensel from 278,99,34,563 { 18, 12 } boolean search (String strifeliar daget) int target = 34; not bus = int[]ans = Search (arr, target); sout (Arrays, to String (ans)); Static int search (int[][] arr, int target) for (int row = 0; row (arr. length; row ++) for (int col= 0; col < arr [row], length; rout) { if (arr [row][col] = = target) { return new int[] {row, col}; 3 return new in+[] {-1,-1}: (rea [] this) min this situals der (Int 1= 2 & ix and length) and " (ing > [:] .vo) 1;